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1. N11A-T005: Modeling of pulse propagation in a four level atomic medium for gyroscopic measurements

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop robust, versatile and computationally efficient models for an as yet not designed gyroscope based on a four level N-scheme atomic system and a bidirectional ring resonator. DESCRIPTION: It has long been known since the pioneering work of Sagnac that light can be a utilized to perform interferometrically sensitive measurements of rotation. If one considers a ring cavity rotati ...

STTR Navy

2. N11A-T006: Advanced Thin-film Battery Development

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop novel light weight high efficiency thin-film batteries for use in Unmanned Autonomous Vehicles (UAVs), remote sensors, expendables, energy harvesting and in"wearable"flexible electronics. DESCRIPTION: Energy harvesting is important for distributed networks used in remote sensors, perimeter protection, intruder alerts and for widespread monitoring of bio-threats. Most energy ...

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3. N11A-T007: Modeling to Quantify Improved Durability of Superfinish Gear Processing

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop physics based gear health models to quantify the benefit of superfinish over conventional gear processing techniques with regard to pitting, spalling and tooth bending fatigue failure modes. DESCRIPTION: Superfinish processed gears have demonstrated improved performance and durability over conventionally processed gears. However, this improvement has not been quantified. ...

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4. N11A-T008: Modeling Tools for the Development of Innovative Wavelength Division Multiplexed (WDM) Local Area Networks (LAN)

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop and demonstrate innovative analysis, modeling, and optimization tools and approaches that can characterize the complex interactions between optical network components. DESCRIPTION: Single-mode optical fiber based dense wavelength division multiplexing (DWDM) optical networks are well established as a leading solution for data communication links for commercial long distance t ...

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5. N11A-T009: High Density, High Efficiency Electrical Power Generation System for UAS Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a high-density, high-efficiency aircraft electrical power generation system with the goal of optimizing heat load, output power, size, and/or weight of future power generation systems. DESCRIPTION: Electrical power generation systems have inherent inefficiencies due to electrical and mechanical loss mechanisms. New technologies are sought to increase the power density and eff ...

STTR Navy

6. N11A-T010: High Fidelity Helicopter Lag Damper Model for Comprehensive Rotor Analysis

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop an experimentally validated high fidelity nonlinear lag damper model that accurately predicts behavior of passive and semi-active or active lag dampers for a range of temperatures, amplitudes, and frequency range, for implementation into a comprehensive rotorcraft analysis system for rotor loads prediction. DESCRIPTION: The use of a Health and Usage Monitoring System (HUMS) f ...

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7. N11A-T011: Monolithic Beam-Combined Mid-Infrared Laser Array

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop a power-scalable, robust, chip-based solution for a monolithic beam-combined quantum cascade laser (QCL) array with high continuous wave (CW) output power in the tens to hundreds of Watts and excellent beam quality in the mid-wave infrared (MWIR) spectral range for infrared countermeasure and other relevant DoD applications. DESCRIPTION: High-power, monolithic, cost-effective ...

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8. N11A-T012: Emitter Geolocation Enhancements for Time-Sensitive Targeting and Naval Battlespace Awareness

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: Develop, analyze and deploy enhanced techniques to improve emitter detection and geolocation performance for improved time-sensitive targeting and Naval Battlespace Awareness DESCRIPTION: Traditional techniques for emitter geolocation include Angle of Arrival (AOA) for single sensor platform situations and Time Difference of Arrival / Frequency Difference of Arrival (TDOA/FDOA) as a ...

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9. N11A-T013: Mitigation of Fuel Tank Explosions and Fires from IED Blasts

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To research, understand, and develop strategies for mitigating fuel tank explosions from improvised explosive device (IED) blasts for Marine Corps vehicle applications. DESCRIPTION: With the increased threat of IEDs during combat operations it is imperative to create a solution to decrease the severity of IED blasts on vehicles, particularly blasts impacting the fuel tank. When comb ...

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10. N11A-T014: Advanced Flame Resistant Resin System for Carbon Fiber Reinforced Composite Shipboard Applications

Release Date: 01-27-2011Open Date: 02-28-2011Due Date: 03-30-2011Close Date: 03-30-2011

OBJECTIVE: To develop new affordable non-halogenated polymeric resin materials that have the improved structural, thermal and Fire, Smoke, and Toxicity (FST) behavior when compared to conventional brominated vinyl esters (Derakane 510A) which are currently in

use by the U.S. Navy in topside structures. Special emphasis will be given to the structural and thermal characteristics of the polymeric sy ...

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